REMARKS BEST AVAILABLE COPY

Claims 1-33 are pending in the application.

Claims 8-9, 11, 15, 24-25, 27 and 31 contain allowable subject matter.

Claims 24-25, 27 and 31 have been amended to independent form. Claims 24-25 and 31 are allowed.

Please charge the deposit account for two extra independent claims.

Claim 1 has been amended herein to include the features of claim 2.

Claim 2, 17-23, 26, 28-30, 32, and 33 are cancelled herein.

Claims 1-7, 10, 12-14, 16-23, 26, 28-30 and 32 are now rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art (AAPA) in view of Meidan et al. (U.S. 5,193,102) (hereinafter Meidan).

It's admitted that the AAPA does not describe the weighting features of applicant's claims. It is argued in the Office Action that Meidan shows the weighting feature as being equivalent to the multiple levels of confidence described in column 16 of Meidan.

However applicant's claim 1 includes if a signal component is below a set value it is weighted by multiplying by a weighting coefficient the value of which is smaller than 1 and varies inconformity with the level of the signal component and if the signal component is greater than the set level, the weighting coefficient is 1.

Meidan describes the detection process may include utilizing the estimated C/I power ratio in combining data samples of a hop received from two or more diversity receiver branches. The reference states that in response to an increasing level of confidence, the associated set of data samples for a hop would be assigned greater weighting coefficients for the diversity combiner.

11

According to Meidan, full confidence is given to a data sample when estimated C/I power ratio is at or above a threshold and no confidence is given to a data sample when the estimated C/I power ratio is below the threshold. A diversity combiner generates an output signal by combining each data sample of which confidence is full. Meidan also describes in another example, several levels of confidence are given to data samples by weighting in conformity with the estimated C/I power ratio and the diversity combiner generates an output signal by multiplying each data sample by a weighting coefficient and combining results of the multiplication.

Niida discloses that each receive signal is weighted in conformity with signal level and a signal is output by combining the weighted receive signals.

It is respectfully submitted that the combination of references fail to disclose the features of claim 1 as pointed out above that if a signal component is below a set value it is weighted by multiplying by a weighting coefficient the value of which is smaller than 1 and varies inconformity with the level of the signal component and if the signal component is greater than the set level, the weighting coefficient is 1. Neither AAPA nor Median discloses this feature of claim 1.

According to the claimed invention, with regard to a path for which the valid/invalid path determination cannot be made, weighting is applied to a finger output in accordance with the degree of valid path likeness, as a result of which valid paths can be rescued. Moreover, by reducing the weighting of paths that have no valid path likeness, invalid paths can be excluded. This provides advantages in improving sensitivity and receiver performance.
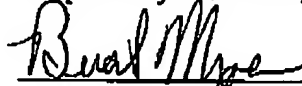
Claim 33 is rejected under 35 U.S.C. 103(a) as unpatentable over Niida et al. Claim 33 is cancelled herein obviating the rejection.

In view of the remarks set forth above, this application is in condition for allowance which action is respectfully requested. However, if for any reason the Examiner should consider this

12

84103036_1

application not to be in condition for allowance, the Examiner is respectfully requested to telephone the undersigned attorney at the number listed below prior to issuing a further Action.

Any fee due with this paper may be charged to Deposit Account No. 50-1290.

Respectfully submitted,

Brian S. Myers
Reg. No. 46,947

CUSTOMER NUMBER 026304
Telephone (212) 940-8800
Fax (212) 940-8986/8987
Docket No.: FUSA 19.444 (100807-00064)
BSM:fd

13